

April 17, 2001

California Regional Water Quality Control Board Los Angeles Region 320 West 4th Street, Suite 200 Los Angeles, California 90013

ATTN:

MR. JIMMIE WOO

SITE:

JALK FEE PROPERTY

10607 NORWALK BOULEVARD SANTA FE SPRINGS, CALIFORNIA

CASE NUMBER: 97-020

RE:

FIRST QUARTER 2001

FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING REPORT

Dear Mr. Woo:

Please find enclosed one copy of the First Quarter 2001 Fluid Level Monitoring and Groundwater Sampling Report for the Jalk Fee Property located at 10607 Norwalk Boulevard, Santa Fe Springs, California.

In a December 12, 2000 letter to the California Regional Water Quality Control Board (CRWQCB), TRC respectively requested the analytical schedule to be limited to volatile organic compounds (VOCs) and the sampling schedule be revised to semiannual. The CRWQCB has granted the request for the analytical schedule to be limited to VOCs; however, has not provided feedback on the request to sample the Jalk Fee wells on a semiannual basis. Please call me at (949) 341-7449 so we may discuss further.

Sincerely,

TDC

Jeff Hensel, RG, REA Project Manager

cc.

Mr. F. E. Hand, ExxonMobil Corporation

Enclosure

23-0134/JalkQMSR04.Doc



### FIRST QUARTER 2001 FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING REPORT

April 13, 2001

JALK FEE PROPERTY 10607 Norwalk Boulevard Santa Fe Springs, California

TRC Project No. 23-0134-09

Prepared For:

EXXONMOBIL CORPORATION

601 Jefferson, KT 1244 Houston, Texas 77002

By:

Jeff Hensel, RG, REA

Project Manager

TRC ALTON GEOSCIENCE

21 Technology Drive Irvine, California 92618 CERTIFIED HYDROGEOLOGIST

# First Quarter 2001 Fluid Level Monitoring and Groundwater Sampling Report Jalk Fee Property April 13, 2001

# TABLE OF CONTENTS

Sect	ion	<u>Page</u>
1.0	INTRODUCTION	1
2.0	FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING ACTIVITIES	1
3.0	LABORATORY ANALYSIS AND GROUNDWATER DISPOSAL	1
4.0	FINDINGS	1
Figu	res_	
1 2 3	Vicinity Map Groundwater Elevation Contour Map Dissolved-Phase Hydrocarbon Concentration Map	
<u>Table</u>	<u>es</u>	
1	Groundwater Elevation and Laboratory Results	
<u>Grap</u>	<u>ohs</u>	
1 2 3 4	Depth to Groundwater vs. Time PCE vs. Time MMW-3 PCE vs. Time MMW-4 PCE vs. Time MMW-5	
Appe	<u>endices</u>	
A B	General Field Procedures and Monitoring Well Purging Data Official Laboratory Report and Chain of Custody Record and Manifests	



### First Quarter 2001 Fluid Level Monitoring and Groundwater Sampling Report Jalk Fee Property April 13, 2001

#### 1.0 INTRODUCTION

This report presents the findings of fluid level monitoring and groundwater sampling activities performed in the First Quarter 2001 at the Jalk Fee Property located at 10607 Norwalk Boulevard, Santa Fe Springs, California (Figure 1).

#### 2.0 FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING ACTIVITIES

On March 5, 2001, fluid levels were measured in Monitoring Wells MMW-3, -4 and -5, located as shown on the groundwater elevation contour map (Figure 2). A summary of fluid level monitoring data for this and previous events is presented in Table 1. Plots of depth to water vs. time for this and the previous events, are presented in Graph 1. PCE trend plots are presented in Graphs 2, 3 and 4.

Monitoring wells were purged and sampled in accordance with standard regulatory protocol. General field procedures and monitoring well purging data are provided in Appendix A.

#### 3.0 LABORATORY ANALYSIS AND GROUNDWATER DISPOSAL

Groundwater samples were submitted to a state-certified laboratory and analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. Dissolved-phase concentrations are shown in Figure 3. Laboratory results for this and previous groundwater sampling events are summarized in Table 1. Copies of the official laboratory report and chain of custody record are included in Appendix B.

Groundwater generated during purging and sampling activities was temporarily stored onsite pending transport to an appropriate disposal/recycling facility. Refer to Appendix C for a copy of the non-hazardous waste manifest.

#### 4.0 FINDINGS

- The groundwater elevation ranges from 25.32 (MMW-4) to 27.87 (MMW-3) feet above mean sea level. The groundwater flow direction is generally directed to the south-southwest as shown on Figure 2.
- No concentrations of BTEX and MTBE were detected in groundwater samples collected in the First Quarter 2001 (Table 1), with the exception of MTBE in MMW-3 at a concentration of 0.0076 milligrams per liter (mg/l). MTBE has only recently been detected in MMW-3 (last three quarters) and will be closely monitored during future sampling events.

# First Quarter 2001 Fluid Level Monitoring and Groundwater Sampling Report Jalk Fee Property April 13, 2001

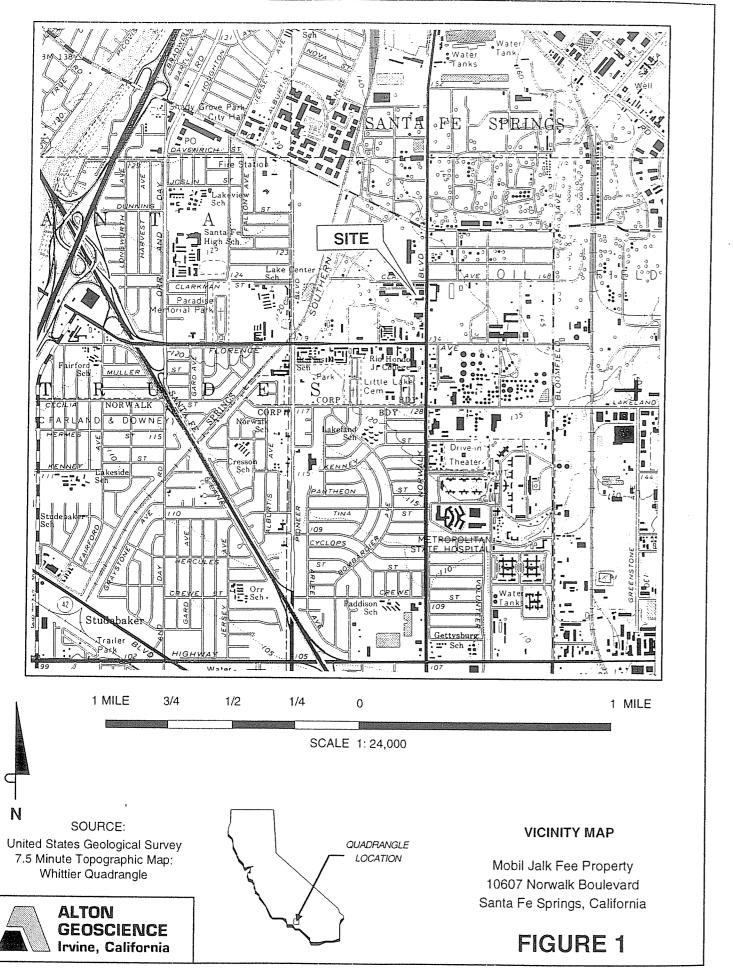
The maximum concentrations of tetrachloroethene (PCE) and trichloroethane (TCE) were detected in Well MMW-5 (0.65 and 0.063 mg/l, respectively). These concentrations are slightly lower than the Fourth Quarter 2000 results.

The fluid level monitoring and groundwater sampling activities summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

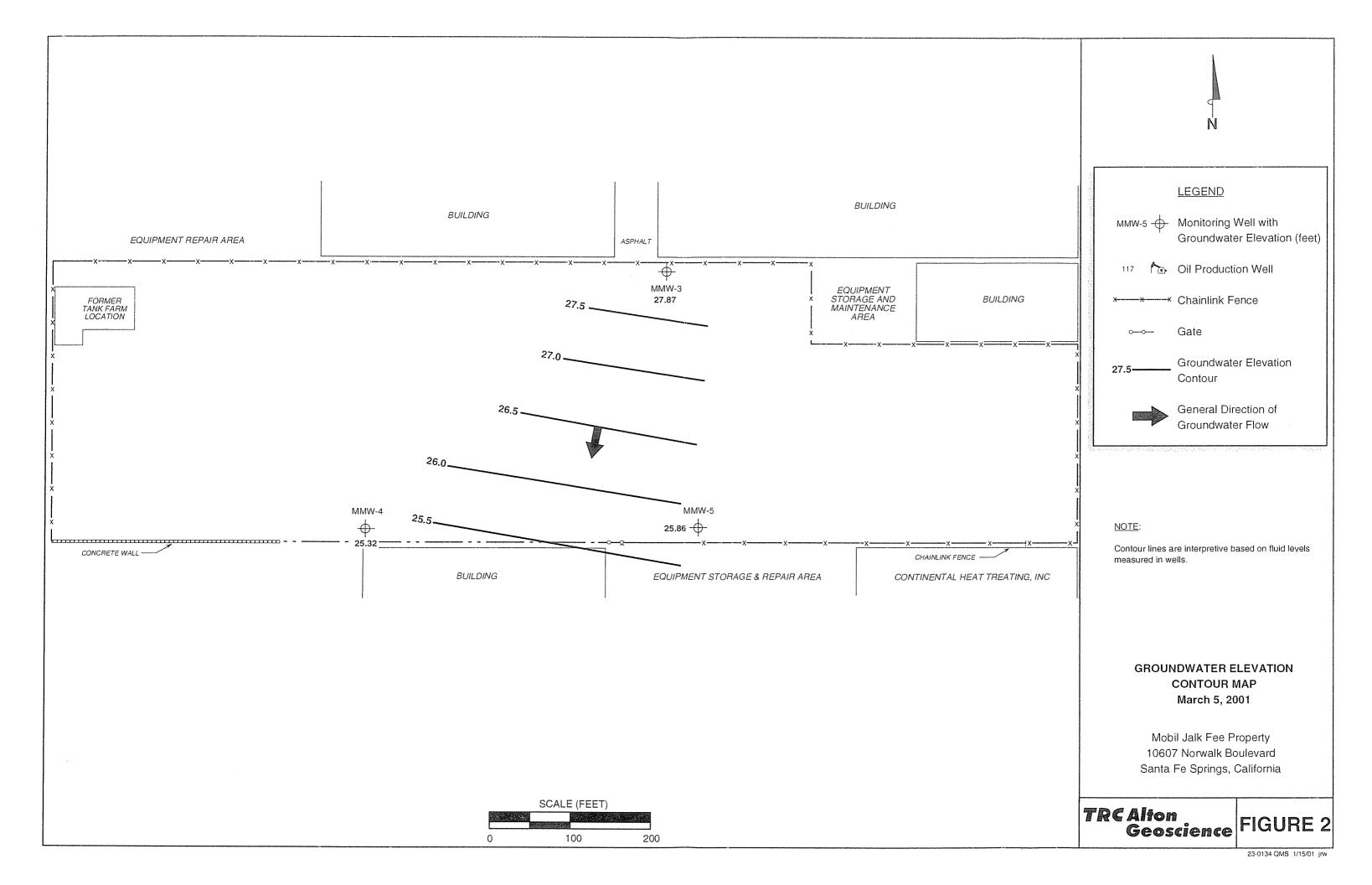
2

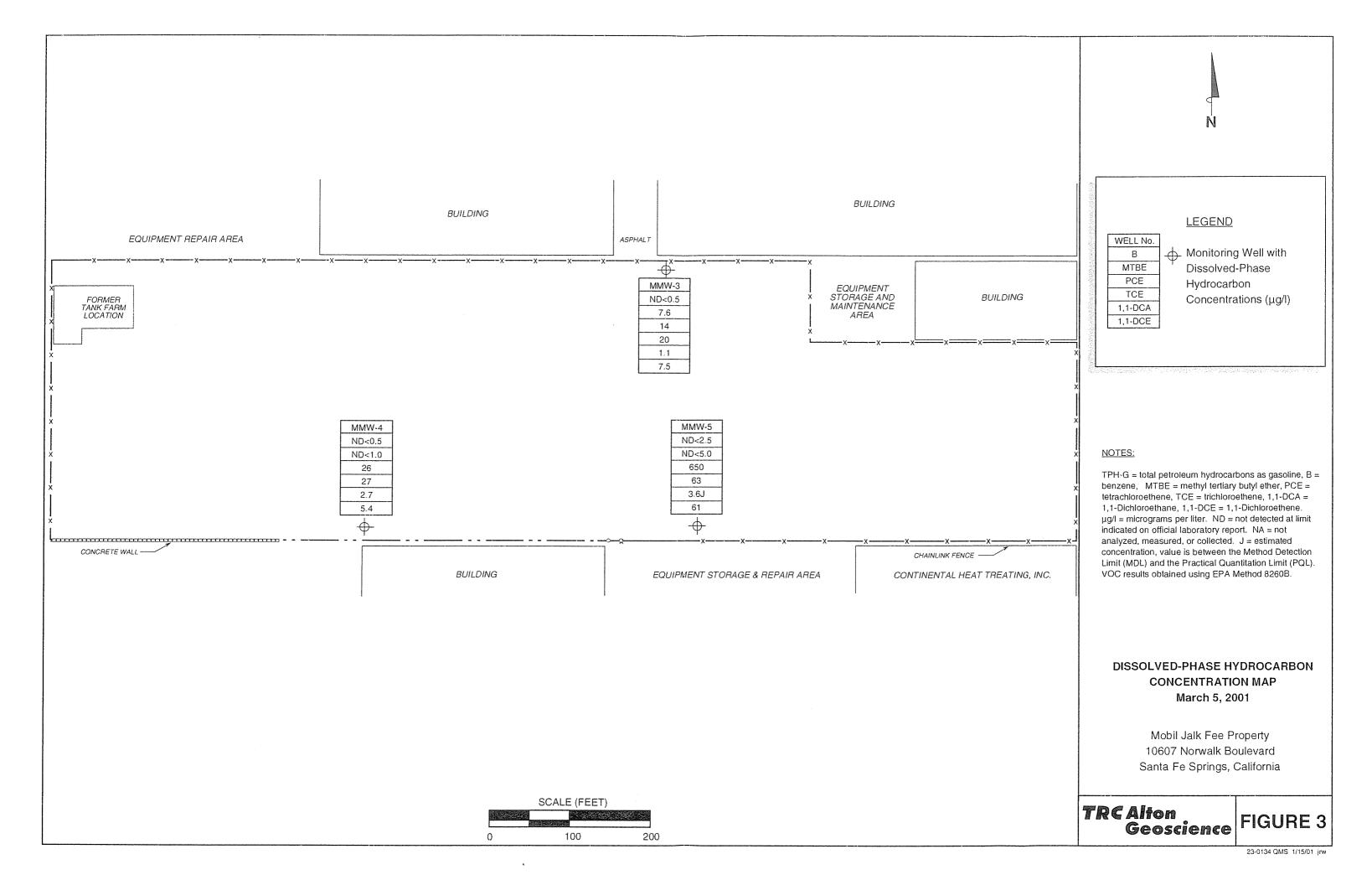


# FIGURES



23-134 8/26/97





# TABLES

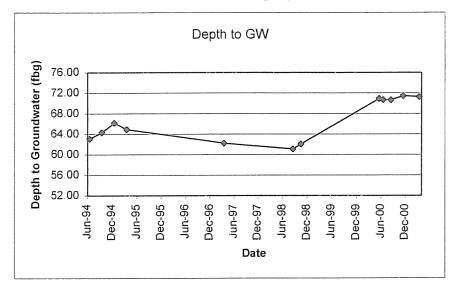
Table 1 GROUNDWATER ELEVATION AND LABORATORY RESULTS March 1994 through March 2001 Jalk Fee Property

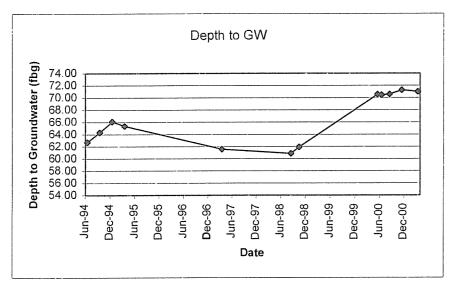
Electrical   Cling	Well	Date	Top of Casing	Depth to Water	Groundwater Elevation	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xvlenes	MTBE	PCE	TCR	1,1- DCA	1,2- DCA	1,1. DCR	c-1,2- DCE
Control   Cont	a		Elevation	(fbg)	(fbg)	(l/gn)	(l/gn)	(l/gn/)	(/ga/J)	(µg/l)	(l/gn/)	(/g/J)	(l/gπ)	(l/g#)	(µg/l)	(l/gn)	(µg/l)
No.	MMW-3	03/15/94	134.26	64 92	69 34	ž	4.0	13	3,6	101		0.5	3,5	0 0	QN	01	Ç
UNION   1113   113   1113		06/22/94	134.26	63.08	71.18	ΩZ	ΩZ	QX	Q Q	2		0.4	24	2.0	Z Z	o	ž
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0		09/16/94	134.26	64.34	69.92	ND	ND	3.0	ND	6.0	ŀ	ND	12	ΩN	ΩN	3.0	2
CORRESTOR         59,17         Coltable         64,14         64,15		12/16/94	134.26	66.21	68.05	ΩN	Ω	8.0	2.0	8.0	;	3.0	17	2.0	ΩN	5.0	ND
0.05/05/05         5.21         0.71         0.72         0.05/05/05         0.72         0.05/05/05         0.72         0.05/05/05         0.72         0.05/05/05         0.72         0.05/05/05		03/08/95	134.26	64.95	69.31	Q i	28	28	2.0	18	ŧ	4.0	20	2.0	QN	2.0	QN
Control   Cont		16/07/50	99.17	67.79	36.92	a i	Q í	Q :	Q :	Q :	; !	12	23	2.0	Q.	7.0	Ω
March   Marc		08/03/98	99.17	21.12	38.05	a N	Q Z	ΩN	QN	Q N	ΩN	8.0	21	2.0	ΩN	0.9	ΩN
0.04/6509   0.07   0.00   0.		05/05/00	73.17	70.20	37.1	1 5	۱ ﴿	: 5	, 4	1 5	: {	: (	1 )	: '	1 5	1 ;	;
0.000   0.00		09/07/00	99.17	70.94	28.23	2 2	2 2	מ מ מ	2 2	Q 2	2 2	5.0	16	æ. :	Q i	9.2	Q i
1928/100   9917   71,20   71		08/31/00	90.17	70.07	28.6	0 V CIN	2 0 7 0 10	מא מא	יין אַנאַ מיין אַנאַ	מא לי לי לי	Q -	2.5	7 5	4. (	2 2	5.0	2 5
Chirachia   Chira		11/28/00	99.17	71.49	20.5	005 V CN	20/07	N	0.1 \ 0.2 \ 0.2 \ 0.2 \ 0.3 \	0.2 \ 0.2	9.1	4 - 4 v	2 2	1.7 0.17 0.17	2 2	0.0 0.0	a V
Column   C		03/05/01	99.17	71.30	27.87	2	ND < 0.5	ND < 1.0	ND < 1.0	ND < 2.0	7.6	5 4	50 50	1.1	ND < 0.5	7.5	0.653
Mail		1															
0.017594   11.14   66.27   66.47   6	MMW-4	03/15/94	131.4	64.36	67.04	Ω	ΩN	4.0	10	38	:	4.0	18	ΩN	ΩN	2.0	ND
1311-194   661-30   663-30   660-30   70		06/22/94	131.4	62.73	68.67	Q i	Q ;	Ω	Q !	Ω	:	2.0	16	ΩN	ΩN	ΩN	ΩN
11   11   11   11   11   11   11   1		19/110/94	4.101	04.32	80.79	o g	Q S	Q v	Q ¢	Q Ö	:	Q.	6.0	Ω	ΩN	ΩΝ	Q
0.012697   0.54   0.5		03/08/05	131.4	65.10	65.53	2 2	2 5	0.7	3.0	9.0	:	1.0	0.9	Q :	Q :	Ω	Ω
08000999   0823   0805   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   0825   0824   082		03/26/97	4.161	61.57	20.02	2 2	0.7	0.5	2 2	0.2	:	0.0	0.6	O K	2 5	Q s	Q i
1012299   66.34   61.93   34.41   1.25   1		08/03/98	96.34	60.86	35.48	2 2	2 2	Z Z	2 2	2 2	: 5	7. 0	4 ±	2 2	2 2	ב צ	2 2
0.0502009   0.6.34   70.6.57   70.57   70.57   70.57   70.50		10/22/98	96.34	61.93	34.41	5 :	ָּ יָ	נָבָ וּ	ָל בַּ	ם ו	ן אַ	7.0		S.	2	N N	a N
0.0046/00   0.6.34   71.28   25.76   ND-5.00   ND-6.10		05/02/00	96.34	70.57	25.77	QN	QN	QN	S	QN	Z Z	4 4		1 7	2	. ×	1 2
08/31/00   96.34   70.38   23.56   ND<530   ND<64.0		00/90/90	96.34	70.46	25.88	QN	ΩN	Q.	2 2	e e	O C	2.6			2 2	5.5	2 5
11/28/09   96,34   71,28   25,06   ND<5.05   ND<1.0   ND<1.0   ND<1.0   ND<2.0   ND<1.0   N	***	08/31/00	96.34	70.58	25.76	ND < 500	ND < 0.5	ND < 1.0	ND < 1.0	ND<2.0	ND < 1.0	6.7		6.1	ΩZ	2.0	S S
11/20/98   96.34   71,02   25.32     ND < 0.5   ND < 1.0   ND < 1.0   ND < 0.5		11/28/00	96.34	71.28	25.06	ND < 500	ND < 0.5	ND<1.0	ND < 1.0	ND < 2.0	ND < 1.0	17		ND < 1.0	QN	4.6	3.4
13.38   66.26   67.12   ND   ND   ND   ND   ND   ND   ND   N		03/05/01	96.34	71.02	25.32	:	ND < 0.5	ND<1.0	ND < 1.0	ND < 2.0	ND<1.0	26		2.7	0.62	5.4	2.3
09/16/94         133.38         64.45         68.93         ND	MMW-5	03/15/94	133.38	66.26	67.12	QN	QN	QN	=	37	;	330		S	Z	5.0	Ž
13,13,8   6,5,6  6,7,7  ND   ND   ND   ND   ND   ND   ND   ND		06/22/94	133.38	64.45	68.93	ΩN	QN	ΩN	ΩN	QN	i	930	100	ΩN	ΩZ	ΩZ	ΩZ
13.18   67.34   66.04   ND   ND   1.0   2.0   1.0     1.400   140   ND   ND   ND   ND   ND   ND   ND   N	-	09/16/94	133.38	65.61	22.77	Q	ΩN	ΩN	ΩN	QN	;	830	82	ΩN	QN	ΩN	ΩN
0.0726/95   13-3.34   0.6.16   0.7.12	****	12/16/94	133.38	67.34	66.04	Q:	Ω	1.0	2.0	1.0	;	1,400	140	ΩN	ND	5.0	ΩN
10,22/98   98,33   63,34   34,88   400   ND   ND   ND   ND   ND   ND   ND	-	03/08/95	133.38	66.16	67.22	QN	Ω	Ω	Ω	Q.	t t	2,200	180	ΩN	QN	ΩN	ΩN
1720/98   98.33   63.59   34.74   450   3.0   3.0   1.0   ND   660   91   ND   9.0     1670/98   98.33   63.59   34.74   450   3.0   3.0   1.0   ND   ND   ND   ND   ND   ND   ND   N		10/22/08	98.33	63.45	34.88	967	2 2	2 5	2 2	Q S	1 4	1,100	88	ΩN	Ω	Ω	Ω
05/02/03 98.33 71.55 26.38 ND ND ND ND ND ND ND 100 24 ND 39 06/06/00 98.33 71.55 26.34 ND 100 24 ND 19 39 06/06/00 98.33 71.56 26.34 ND 100 24 ND 19 19 11/28/00 98.33 72.58 ND 5.50 ND 5		11/20/98	98.33	63.59	34.74	7 S	200	7.0	2 2	0.0	ב ב ב	: 5	: 5	: 5	: 5	1 6	1 5
06/06/00         98.33         71.79         26.54         ND         ND         ND         39           06/06/00         98.33         71.79         26.54         ND         ND         ND         24         ND         19           19/15/00         98.33         71.86         26.47         136         ND         25.0         ND         390         52         3.1         ND         41           11/28/00         98.33         72.47         25.86          ND         5.0	-	05/05/00	98.33	71.95	26.38	2 2 2	2	0.2	2 2	2.5	2 2	000	2 6	N c	2 2	9.0	2 2
09/15/00         98.33         71.86         26.47         136         ND < 2.5		00/90/90	98.33	71.79	26.54	ΩZ	200	2 2	2 2	Z Z	2 2	000	5 2	† <u>C</u>	2 2	60	2 2
11/28/00   98.33   72.58   25.75   ND < 50   ND < 5.0   ND < 5.0   1,000   91   ND < 5.0   ND < 2.5   ND < 3.0   ND < 3		09/15/00	98.33	71.86	26.47	136	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	390	52	3.1	ΩZ	; 4	Q Z
PCE		11/28/00	98.33	72.58	25.75	ND < 500	ND<2.5	ND < 5.0	ND < 5.0	ND < 10	ND<5.0	1,000	91	ND < 5.0	ΩN	58	9.3
PCE TPH-G MTBE TCE 1.1-DCA 1.1-DCE 1.1		03/05/01	98.33	72.47	25.86	:	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	650	63	3.63	ND<2.5	61	4.13
	Notes:	PCE		oethene			A Printed States of the States			***************************************					A STATE OF THE PARTY OF THE PAR		And the second s
		TPH-G		oleum hydroc	arbons with gasol	ine distinction											
		MTBE		rtiary butyl e	ther												
		TCE	_	thene													
		1.1-DCA		oroethane													
11 11 11 11		1.1-DCF		proethene													
11 11 11		c-1,2-DCE		ichloroethene													
200		fbg	= feet befor	v grade													
= not analyzed_measured_or collected		μg/1		ms per liter													
			= not analy	zed, measure	d, or collected												

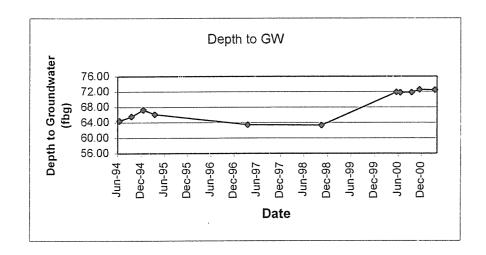
P. Projecta D. Fold J. L. R. Confedence and J. L. S. Confedence and J. L. Confedence and J. L. Confedence and J. L. Confedence and J. Conf

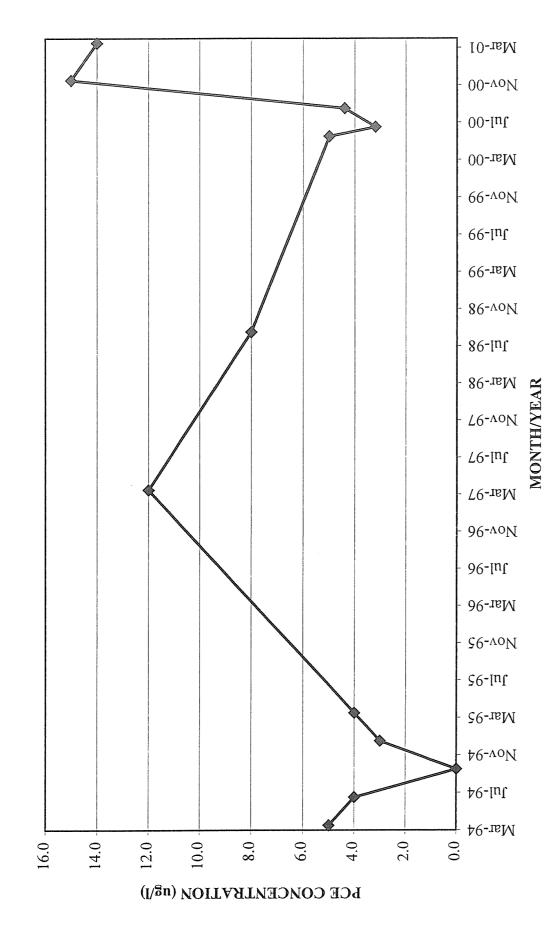
# GRAPHS

Graph 1
Depth to Groundwater vs. Time
Jalk Fee Property









PCE vs. TIME - MMW-3

PCE vs. TIME - MMW-4

PCE vs. TIME - MMW-5

# First Quarter 2001 Fluid Level Monitoring and Groundwater Sampling Report Jalk Fee Property April 13, 2001

### APPENDIX A

# GENERAL FIELD PROCEDURES AND MONITORING WELL PURGING DATA



#### GENERAL FIELD PROCEDURES

General field procedures used during fluid level monitoring and groundwater sampling activities are described below.

#### FLUID LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The depth to liquid-phase hydrocarbons (LPH) and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

#### GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no LPH are purged of groundwater prior to sampling so that fluids collected are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when the specified number of casing volumes of fluid have been removed and the three (3) parameters, pH, Conductivity, and Temperature have stabilized (See groundwater Sampling Field Notes for volume removed). Samples for laboratory analysis are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purge water is either (1) pumped directly into a licensed vacuum truck; or (2) treated and disposed onsite using the TRC Alton Geoscience Mobile Groundwater Treatment Trailer; or (3) temporarily stored in labeled drums prior to transport to a treatment/recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

With respect to wells that have been designated as "nonpurge", the wells will be sampled without purging. Monitoring wells that contain measurable LPH are typically purged. The purged water and LPH removed from wells will be either pumped directly into a licensed vacuum truck and removed from the site, or temporarily stored in labeled drums pending transport to an approved treatment/recycling facility.

#### GROUNDWATER SAMPLE COLLECTION

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer to just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials, then transported to a state-certified laboratory for analysis. Samples remain in a cooler packed with ice until returned to TRC Alton's office where they are kept in a dedicated sample refrigerator pending shipment to an analytical laboratory.

Chain of custody protocol is followed for all groundwater samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis. When a freight or overnight carrier ships samples, the carrier is noted on the chain of custody form.

#### **DECONTAMINATION**

Latex gloves are worn at all times during monitoring, sampling, and purging activities. Gloves are changed between each well. All monitoring, sampling, and purging equipment that could contact well fluids is either dedicated to a particular well or cleaned prior to each use in a Liqui-nox solution followed by two rinses: the first rinse in tap water and the final rinse in deionized water.

# FIELD MONITORING DATA SHEET



Technician:	1	le	Fee

Date: 3-5-01

site # Bill Rey Project Manager Jeff Hensel

Page / of /

	Do		Total	Depth to	Depth to	Product Thickness		
Well #	-Grede	TOC	Depth	Water	Product	(feet)	Sampled	Misc. Well Notes
MW-5	AP. J. 67	X	7633	72.47	0	0	815	4
mu-y	年219	X	105.05	71.02	8	<b>D</b>	9:34	Y-
mw-3	12:25	X	93.21	71.30		0	8 45	4"
		7						
				1				
				· · ·				
		·						
						•		
FIELD DATA	COMPLE	JE _	QAVQC		coc	WE	ELL BOX CO	NDITION SHEETS
WIT CERTI			MANIFES	ST T	DRUM INV	ENTORY	TRAF	FIC CONTROL
FLDMC*LZ 8 Y	( A)(A)			-				

ZE			
order transplace to the second se			
Complete to Control of Control			
N. C.			
To the state of th			

# GROUNDWATER SAMPLING FIELD NOTES

Site: )6//	Y fee	Pr	oject No.:¿	23-01	34		Sampled 1	By: <u>[]</u> - [2	) J			Date: 3 -	10-	
Net No. 10	11.5-5	Pı	irae Matho	d: ) _ <u> </u>	-937			Ń	11	- 41	Purga Meti	nod: 5.6	£37	
Depth to W				duct (feet):				Depth to W	ater (feet):	71.38		roduct (feet)		
Total Depth	1100	1.37 LF		r Recovered				Total Deptr	· reeti 9.	الد.ر		ter Recovere		0
Water Colur	7:110011	3.96		eter (Inches	c/ ·-			Water Colu	mn (feet): ,	አ/-8ን .		meter (Inche	. /	
water Colui	rae Death	(foet):74.N 1		ne (gallons)				80% Recha	arge Depth I	16ett: 75.74		ume (gallons		
T					-	Τ	7	Time	Time	Depth	Volume	Conduc-		
Time	Time	· 1	1	. 1	Temper-	-11		Start	Stop	To Water	Purged	tivity	Temper-	
Start	Stop		Purged	tivity	ature	рΗ		Start	Stop				ature	pH
					(F,C)	1 31	-{	GIAS	ļ	(feet)	(gallons)	(uS/cm)	(F,C)	, -
7:37				4	8.8	646	)	g: Ls			17	1.75	641	051
					05.1	651			G.	<u> </u>	28	1.71	65.5	6.59
	0,04		66	1-63 (	05.1	6.8	4		8:35	ļ	3647	i. 67	66.3	6.67
	•						_		<u></u>	ļ			L	
Statio	at	Tota	al le		Time			Statio	c at	To	tal	***	Time	
Time Sa	mpled	Purge	ed		ampled	<u> </u>	] .	Time S	ampled	Pur	ged		Sampled	
7255		<i>ما و)</i>		8:11-				71.4	7	4	7	J. 42		
Comment								Comment	ls:					
Λ	NI WY			يرك يه	5923			ur. W. M.			Ouron Mar	hade		
Well No.	1007	つ1~と F						Well No				thod:		
Depth to W				oduct (feet)		a			Water (feet)			Product (feet		
Total Depti	n (feet):_/	<u>05.65</u> 1		er Recovere		<u>:</u>			th (feet):			ster Recover		:
Water Colu	ımn (feet)	34.07		meter (inche		-			umn (feet)_			ameter (inch		
80% Recha	arge Depth	(1001)7.32	1 Well Volu	anolleg) emu	1:			80% Rech	arge Depth	(feet):	1 Well Vo	lume (gallon	s):	
Time	Time	Depth	Volume	Conduc-	Temper-		7	Time	Time	Depth	Volume	Conduc-	Temper-	
Start	Stop	To Water	Purged	tivity	ature	На		Start	Stop	To Water	Purged	tivity	ature	рН
0(8)	Otop	(feet)	(gallons)	(uS/cm)	(F,C)		-			(feet)	(gallons)	(uS/cm)	(F,C)	
9:50		11000	22		62.7	6.5	7				1	1		
-		-	44		653	6.48								
	9:14				459	6.4	3							1
	7/19			1101	<u> </u>	(D : -	7		+		1	1		
Cara	<u></u>	T	• = 1		Time		7	Stat	ic at	T	otal	İ	Time	
Stati		To							Sampled	1	rged		Sampled	
	ampled	Pure			Sampled			14110	Jampieu	+	geu	<del> </del>	Jampieu	
71.		60	0	9:20	L		$\dashv$	C				L		
Commen	ts:						$\dashv$	Commer	103:					
L								L						
Well No			Purge Met	thod:				Well No.			Purge Me	thod:		
	Water (fee	t)	Depth to I	Product (fee	t):			Depth to	Water (feet	)	Depth to	Product (fee	it):	
Total Dep	th (feet):		LPH & Wa	ter Recover	ed (gallor	ns):		Total Dep	oth (feet):		LPH & W	ater Recove	red (gallons	:}:
Water Col			Casing Di	ameter (inch	ies):			Water Co	luma (feet)		Casing D	iameter (incl	nes):	_
		th (feet):	1 Well Vo	lume (gallon	ısi:			80% Rec	harge Depti	n (feet):	1 Well V	olume (gallo	ns):	
			r	Conduc-		. ]	$\neg$	Time	Time	Depth	Volume	Conduc-	Temper	.T
Time	Time	Depth			Temper	1	, ]	Start		1	1	į.	1	ρΗ
Start	Stop	To Water	Purged	1	ature	1	.	Jiait	Stop	To Water	1	1	ature (F,C)	1 .
	+	(feet)	(yallons)	(uS/cm)	(F,C	+	$\dashv$		<del> </del>	1 (rear)	- (gallons	100/00)	111,0	+
			<del> </del>	<del> </del> -	<del> </del>		$\dashv$				<del></del>			+
ļ	-		-	-	<b> </b>		-			-	+	<del> </del>	-	
					<del> </del>		$\dashv$						<del> </del>	
			ــــــــــــــــــــــــــــــــــــــ		<u> </u>								<u> </u>	
Stat	tic at	T	otal	1	Time				itic at	1	Total		Time	
Time	Sampled	Pu	rged	1	Sample	d	_	Time	Sampled	P	urged		Sampled	1
							_		***************************************					
Comme	nts:							Comme	ents:					
					-	***			وسا دائن			مانداندان والمداراتين	saka a damadak	Carolina of construction (Carolina)

-01	
-01 (Gallons) 5): 4" 1:/4	
75)	
d (gallons)	0
s): <u>'</u> '	
1:14	
Temper-	
ature	pН
(F,C) (GY) (	, ,
CS. 5 (	051
663	6.67
Time	
Sampled	
):	
od (gallons):_	
as):	
s):	
Temper-	
ature	рН
(F,C)	
Time	
Sampled	
t):	
ed (gallons):	
nes):	
ns):	
Temper-	
ature	ρH
(F,C)	
-	
1	
1	
Time	
Sampled	

First Quarter 2001 Fluid Level Monitoring and Groundwater Sampling Report Jalk Fee Property April 13, 2001

### APPENDIX B

# OFFICIAL LABORATORY REPORT AND CHAIN OF CUSTODY RECORD AND MANIFEST





March 09, 2001

Jeff Hensel TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618

Subject: Calscience Work Order Number: 01-03-0168

Client Reference: Mobil - Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 03/05/01, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental Laboratories, Inc. Michael J. Crisostomo Project Manager

adultina for

William H. Christensen Quality Assurance Manager

1



TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618 Date Received: Work Order No: Preparation:

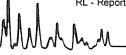
Method:

03/05/01 01-03-0168 N/A EPA 8260B

Project: Mobil - Jalk Fee

Page 1 of 4

Client Sample Number:				Samp umber		Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	Q	C Bato	h ID:
MW-5			01-	03-016	8-1	03/05/01	Aqueous	N/A	03/05/01	0	30501	<b>AW</b>
Parameter	Result	<u>RL</u>	DF	Qual	<u>Units</u>	<u>Parameter</u>		Result	<u>RL</u>	DF	Qual	<u>Units</u>
Acetone	62	50	5		ug/L	1,1-Dichloropr	opene	ND	5.0	5		ug/L
Benzene	ND	2.5	5		ug/L	c-1,3-Dichloro	propene	ND	2.5	5		ug/L
Bromobenzene	ND	5.0	5		ug/L	t-1,3-Dichlorop	propene	ND	2.5	5		ug/L
Bromochloromethane	ND	5.0	5		ug/L	Ethylbenzene		ND	5.0	5		ug/L
Bromodichloromethane	ND	5.0	5		ug/L	2-Hexanone		ND	50	5		ug/L
Bromoform	ND	5.0	5		ug/L	Isopropylbenz		ND	5.0	5		ug/L
Bromomethane	ND	5.0	5		ug/L	p-Isopropyltoli		ND	5.0	5		ug/L
2-Butanone	ND	50	5		ug/L	Methylene Chl	oride	ND	50	5		ug/L
n-Butylbenzene	ND	5.0	5		ug/L	4-Methyl-2-Pe	ntanone	ND	50	5		ug/L
sec-Butylbenzene	ND	5.0	5		ug/L	Naphthalene		ND	50	5		ug/L
tert-Butylbenzene	ND	5.0	5		ug/L	n-Propylbenze	ne	ND	5.0	5		ug/L
Carbon Disulfide	ND	50	5		ug/L	Styrene		ND	5.0	5		ug/L
Carbon Tetrachloride	ND	2.5	5		ug/L	1,1,1,2-Tetraci	hloroethane	ND	5.0	5		ug/L
Chlorobenzene	ND	5.0	5		ug/L	1,1,2,2-Tetrac	hloroethane	ND	5.0	5		ug/L
Chloroethane	ND	5.0	5		ug/L	Tetrachloroeth	ene	650	5	5		ug/L
Chloroform	ND	5.0	5		ug/L	Toluene		ND	5.0	5		ug/L
Chloromethane	ND	5.0	5		ug/L	1,2,3-Trichloro	benzene	ND	5.0	5		ug/L
2-Chlorotoluene	ND	5.0	5		ug/L	1,2,4-Trichloro		ND	5.0	5		ug/l.
4-Chlorotoluene	ND	5.0	5		ug/L	1,1,1-Trichloro		ND	5.0	5		ug/L
Dibromochloromethane	ND	<b>5</b> .0	5		ug/L	1,1,2-Trichloro	ethane	ND	5.0	5		ug/L
1,2-Dibromo-3-Chloropropane	ND	25	5		ug/L	Trichloroethen	е	63	5	5		ug/L
1,2-Dibromoethane	ND	5.0	5		ug/L	Trichlorofluoro	methane	ND	50	5		ug/L
Dibromomethane	ND	5.0	5		ug/L	1,2,3-Trichloro	propane	ND	5.0	5		ug/L
1,2-Dichlorobenzene	ND	5.0	5		ug/L	1,2,4-Trimethy	lbenzene	ND	5.0	5		ug/L
1,3-Dichlorobenzene	ND	5.0	5		ug/L	1,3,5-Trimethy	lbenzene	ND	5.0	5		ug/L
1,4-Dichlorobenzene	ND	5.0	5		ug/L	Vinyl Acetate		ND	50	5		ug/L
Dichlorodifluoromethane	ND	5.0	5		ug/L	Vinyl Chloride		ND	2.5	5		ug/L
1,1-Dichloroethane	3.6	5.0	5	J	ug/L	p/m-Xylene		ND	5.0	5		ug/L
1,2-Dichloroethane	ND	2.5	5		ug/L	o-Xylene		ND	5.0	5		ug/L
1,1-Dichloroethene	61	5	5		ug/L	Methyl-tert-But		ND	5.0	5		ug/L
c-1,2-Dichloroethene	4.1	5.0	5	J	ug/L	Tert-Butyl alco		ND	250	5		ug/L
t-1,2-Dichloroethene	ND	5.0	5		ug/L	Diisopropyl eth		ND	10	5		ug/L
1,2-Dichloropropane	ND	5.0	5		ug/L	Ethyl t-butyl et		ND	10	5		ug/L
1,3-Dichloropropane	ND	5.0	5		ug/L	Tert-Amyl meti	nyl ether	ND	10	5		ug/L
2,2-Dichloropropane	ND	5.0	5		ug/L							
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Dibromofluoromethane 1,4-Bromofluorobenzene	101 92	86-118 86-115				Toluene-d8		103	8 <b>8</b> -110			



RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618 Date Received: Work Order No: 03/05/01 01-03-0168 N/A

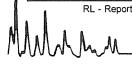
Preparation: Method:

EPA 8260B

Project: Mobil - Jalk Fee

Page 2 of 4

Client Sample Number:				Samp umber		Date Collected:	Matrix:	Date Prepared:	Date Analyzed	: Q	C Bato	h ID:
MW-4			01-	03-016	8-2	03/05/01	Aqueous	N/A	03/05/01	C	30501	AW
Parameter	Result	<u>RL</u>	DF	Qual	<u>Units</u>	Parameter		Result	RL	<u>DF</u>	Qual	Units
Acetone	7.3	10.0	1	J	ug/L	1,1-Dichloropi	opene	ND	1.0	1		ug/L
Benzene	ND	0.50	1		ug/L	c-1,3-Dichloro	propene	ND	0.50	1		ug/L
Bromobenzene	ND	1.0	1		ug/L	t-1,3-Dichloro	propene	ND	0.50	1		ug/L
Bromochloromethane	ND	1.0	1		ug/L	Ethylbenzene		ND	1.0	1		ug/L
Bromodichloromethane	ND	1.0	1		ug/L	2-Hexanone		ND	10	1		ug/L
Bromoform	ND	1.0	1		ug/L	Isopropylbenz	ene	ND	1.0	1		ug/L
Bromomethane	ND	1.0	1		ug/L	p-Isopropyltol	uene	ND	1.0	1		ug/L
2-Butanone	ND	10	1		ug/L	Methylene Ch	loride	ND	10	1		ug/L
n-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pe	ntanone	ND	10	1		ug/L
sec-Butylbenzene	ND	1.0	1		ug/L	Naphthalene		ND	10	1		ug/L
tert-Butylbenzene	ND	1.0	1		ug/L	n-Propylbenze	ene	ND	1.0	1		ug/L
Carbon Disulfide	ND	10	1		ug/L	Styrene		ND	1.0	1		ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L	1,1,1,2-Tetrac	hloroethane	ND	1.0	- 1		ug/L
Chlorobenzene	ND	1.0	1		ug/L	1,1,2,2-Tetrac	hloroethane	ND	1.0	1		ug/L
Chloroethane	ND	1.0	1		ug/L	Tetrachloroeth	nene	26	1	1		ug/L
Chloroform	ND	1.0	1		ug/L	Toluene		ND	1.0	1		ug/L
Chloromethane	ND	1.0	1		ug/L	1,2,3-Trichlord	benzene	ND	1.0	1		ug/L
2-Chlorotoluene	ND	1.0	1		ug/L	1,2,4-Trichlord		ND	1.0	1		ug/L
4-Chlorotoluene	ND	1.0	1		ug/L	1,1,1-Trichlore	ethane	ND	1.0	1		ug/L
Dibromochloromethane	ND	1.0	1		ug/L	1,1,2-Trichlord	ethane	ND	1.0	1		ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	Trichloroether		27	1	1		ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L	Trichlorofluoro	methane	ND	10	1		ug/L
Dibromomethane	ND	1.0	1		ug/L	1,2,3-Trichlord	propane	ND	1.0	1		ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethy		ND	1.0	1		ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L	1,3,5-Trimeth	•	ND	1.0	1		ug/L
1.4-Dichlorobenzene	ND	1.0	1		ug/L	Vinyl Acetate		ND	10	1		ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L	Vinyl Chloride		ND	0.50	1		ug/L
1,1-Dichloroethane	2.7	1.0	1		ug/L	p/m-Xylene		ND	1.0	1		ug/L
1,2-Dichloroethane	0.62	0.50	1		ug/L	o-Xylene		ND	1.0	1		ug/L
1,1-Dichloroethene	5.4	1.0	1		ug/L	Methyl-tert-Bu	tvl Ether	ND	1.0	1		ug/L
c-1,2-Dichloroethene	2.3	1.0	1		ug/L	Tert-Butyl alco		ND	50	1		ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L	Diisopropyl et		ND	2.0	1		ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L	Ethyl t-butyl e		ND	2.0	1		ug/L
1,3-Dichloropropane	ND	1.0	1		ug/L	Tert-Amyl me		ND	2.0	1		ug/L
2,2-Dichloropropane	ND	1.0	1		ug/L		,	7.2				-3
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Dibromofluoromethane 1,4-Bromofluorobenzene	101 96	86-118 86-115				Toluene-d8		102	88-110			



RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618 Date Received: Work Order No: Preparation:

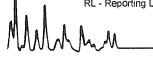
Method:

03/05/01 01-03-0168 N/A EPA 8260B

Project: Mobil - Jalk Fee

Page 3 of 4

Client Sample Number:				Samp		Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	Q	C Batch ID:	-
MW-3			01-	03-016	8-3	03/05/01	Aqueous	N/A	03/05/01	0:	30501AW	
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual Units	
Acetone	5.7	10.0	1	J	ug/L	1,1-Dichloropr	opene	ND	1.0	1	ug/L	
Benzene	ND	0.50	1		ug/L	c-1,3-Dichloro	propene	ND	0.50	1	ug/L	
Bromobenzene	ND	1.0	1		ug/L	t-1,3-Dichloro	propene	ND	0.50	1	ug/L	
Bromochloromethane	ND	1.0	1		ug/L	Ethylbenzene		ND	1.0	1	ug/L	
Bromodichloromethane	ND	1.0	1		ug/L	2-Hexanone		ND	10	1	ug/L	
Bromoform	ND	1.0	1		ug/L	Isopropylbenz		ND	1.0	1	ug/L	
Bromomethane	ND	1.0	1		ug/l.	p-Isopropyltoli	uene	ND	1.0	1	ug/L	
2-Butanone	ND	10	1		ug/l.	Methylene Ch	loride	ND	10	1	ug/L	
n-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pe	ntanone	ND	10	1	ug/L	
sec-Butylbenzene	ND	1.0	1		ug/L	Naphthalene		ND	10	1	ug/L	
tert-Butylbenzene	ND	1.0	1		ug/L	n-Propylbenze	ene	ND	1.0	1	ug/L.	
Carbon Disulfide	ND	10	1		ug/L	Styrene		ND	1.0	1	ug/L	
Carbon Tetrachloride	ND	0.50	1		ug/L	1,1,1,2-Tetrac	hloroethane	ND	1.0	1	ug/L	
Chlorobenzene	ND	1.0	1		ug/L	1,1,2,2-Tetrac	hloroethane	ND	1.0	1	ug/L	
Chloroethane	ND	1.0	1		ug/L	Tetrachloroeth	nene	14	1	1	ug/L	
Chloroform	ND	1.0	1		ug/L	Toluene		ND	1.0	1	ug/L	
Chloromethane	ND	1.0	1		ug/L	1,2,3-Trichlord	benzene	ND	1.0	1	ug/L	
2-Chlorotoluene	ND	1.0	1		ug/L	1,2,4-Trichlord	benzene	ND	1.0	1	ug/L.	
4-Chlorotoluene	ND	1.0	1		ug/L	1,1,1-Trichlord	ethane	ND	1.0	1	ug/L	
Dibromochloromethane	ND	1.0	1		ug/L	1,1,2-Trichlord	ethane	ND	1.0	1	ug/L	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	Trichloroethen	ie	20	1	1	ug/L.	
1,2-Dibromoethane	ND	1.0	1		ug/L	Trichlorofluoro	methane	ND	10	1	ug/L	
Dibromomethane	ND	1.0	1		ug/L	1,2,3-Trichlord	propane	ND	1.0	1	ug/L	
1,2-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethy	lbenzene	ND	1.0	1	ug/L	
1,3-Dichlorobenzene	ND	1.0	1		ug/L	1,3,5-Trimethy	lbenzene	ND	1.0	1	ug/L	
1,4-Dichlorobenzene	ND	1.0	1		ug/L	Vinyl Acetate		ND	10	1	ug/L	
Dichlorodifluoromethane	ND	1.0	1		ug/L	Vinyl Chloride		ND	0.50	1	ug/L	
1,1-Dichloroethane	1.5	1.0	1		ug/L	p/m-Xylene		ND	1.0	1	ug/L	
1,2-Dichloroethane	ND	0.50	1		ug/L	o-Xylene		ND	1.0	1	ug/L	
1,1-Dichloroethene	7.5	1.0	1		ug/L	Methyl-tert-Bu		7.6	1.0	1	ug/L	
c-1,2-Dichloroethene	0.65	1.0	1	J	ug/L	Tert-Butyl alco		ND	50	1	ug/L	
t-1,2-Dichloroethene	ND	1.0	1		ug/L	Diisopropyl eth	ner (DIPE)	ND	2.0	1	ug/L	
1,2-Dichloropropane	ND	1.0	1		ug/L	Ethyl t-butyl et	ther (ETBE)	ND	2.0	1	ug/L	
1,3-Dichloropropane	ND	1.0	1		ug/L	Tert-Amyl met	hyl ether	ND	2.0	1	ug/L	
2,2-Dichloropropane	ND	1.0	1		ug/L							
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Dibromofluoromethane	102	<u>Limits</u> 86-118				Toluene-d8		102	88-110			
1,4-Bromofluorobenzene	94	86-115										



RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618 Date Received: Work Order No: Preparation:

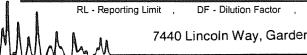
Method:

03/05/01 01-03-0168 N/A EPA 8260B

Project: Mobil - Jalk Fee

Page 4 of 4

Client Sample Number:				Samp lumber		Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC	Batch ID:
Method Blank			09	9-10-00	6-1,787	N/A	Aqueous	N/A	03/05/01	03	0501AW
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF G	Qual Units
Acetone	ND	10	1		ug/L	1,1-Dichloropr	opene	ND	1.0	1	ug/L
Benzene	ND	0.50	1		ug/L	c-1,3-Dichloro	propene	ND	0.50	1	ug/L
Bromobenzene	ND	1.0	1		ug/L	t-1,3-Dichlorop	ropene	ND	0.50	1	ug/L
Bromochloromethane	ND	1.0	1		ug/L	Ethylbenzene		ND	1.0	1	ug/L
Bromodichloromethane	ND	1.0	1		ug/L	2-Hexanone		ND	10	1	ug/L
Bromoform	ND	1.0	1		ug/L	Isopropylbenze	ene	ND	1.0	1	ug/L
Bromomethane	ND	1.0	1		ug/L	p-Isopropyltolu	iene	ND	1.0	1	ug/L
2-Butanone	ND	10	1		ug/L	Methylene Chl	oride	ND	10	1	ug/L
n-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pe	ntanone	ND	10	1	ug/L
sec-Butylbenzene	ND	1.0	1		ug/L	Naphthalene		ND	10	1	ug/L
tert-Butylbenzene	ND	1.0	1		ug/L	n-Propylbenze	ne	ND	1.0	1	ug/L
Carbon Disulfide	ND	10	1		ug/L	Styrene		ND	1.0	1	ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L	1,1,1,2-Tetrac	hloroethane	ND	1.0	1	ug/L
Chlorobenzene	ND	1.0	1		ug/L	1,1,2,2-Tetrac	hloroethane	ND	1.0	1	ug/L
Chloroethane	ND	1.0	1		ug/L	Tetrachloroeth	ene	ND	1.0	1	ug/L
Chloroform	ND	1.0	1		ug/L	Toluene		ND	1.0	1	ug/L
Chloromethane	ND	1.0	1		ug/L	1,2,3-Trichloro	benzene	ND	1.0	1	ug/L
2-Chlorotoluene	ND	1.0	1		ug/L	1,2,4-Trichloro		ND	1.0	1	ug/L
4-Chlorotoluene	ND	1.0	1		ug/L	1,1,1-Trichloro	ethane	ND	1.0	1	ug/L
Dibromochloromethane	ND	1.0	1		ug/L	1,1,2-Trichloro		ND	1.0	1	ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	Trichloroethen	е	ND	1.0	1	ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L	Trichlorofluoro	methane	ND	10	1	ug/L
Dibromomethane	ND	1.0	1		ug/L	1,2,3-Trichloro	propane	ND	1.0	1	ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethy	lbenzene	ND	1.0	1	ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L	1,3,5-Trimethy	Ibenzene	ND	1.0	1	ug/L
1.4-Dichlorobenzene	ND	1.0	1		ug/L	Vinyl Acetate		ND	10	1	ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L	Vinyl Chloride		ND	0.50	1	ug/L
1,1-Dichloroethane	ND	1.0	1		ug/L	p/m-Xylene		ND	1.0	1	ug/L
1,2-Dichloroethane	ND	0.50	1		ug/L	o-Xylene		ND	1.0	1	ug/L
1,1-Dichloroethene	ND	1.0	1		ug/L	Methyl-tert-Bu	tvl Ether	ND	1.0	1	ug/L
c-1,2-Dichloroethene	ND	1.0	1		ug/L	Tert-Butyl alco		ND	50	1	ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L	Diisopropyl eth		ND	2.0	1	ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L	Ethyl t-butyl et		ND	2.0	1	ug/L
1,3-Dichloropropane	ND	1.0	1		ug/L	Tert-Amyl met		ND	2.0	1	ug/L
2,2-Dichloropropane	ND	1.0	1		ug/L					-	• 3
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	. 9	Qual
Dibromofluoromethane	101	86-118				Toluene-d8		102	88-110		
1,4-Bromofluorobenzene	96	86-115									
.,		00 .10									



7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Qual - Qualifiers



# Quality Control - Spike/Spike Duplicate

03/05/01

N/A

01-03-0168

EPA 8260B

TRC-Alton Geoscience

21 Technology Drive

Irvine, CA 92618

Date Received:

Work Order No:

Preparation:

Method:

Project: Mobil - Jalk Fee

Spiked Sample ID	Matrix	Instrument	Date Prepared	D	ate Analyzed	MS/MSD Batch Number
MW-3	Aqueous	GC/MS S	N/A		03/05/01	0103016803
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	100	72-127	5	0-25	
Carbon Tetrachloride	123	115	70-130	6	0-25	
Chlorobenzene	99	96	72-131	3	0-25	
1,2-Dichlorobenzene	109	103	70-130	5	0-25	
1,1-Dichloroethene	110	102	69-127	6	0-25	
Toluene	112	106	75-124	6	0-25	
Trichloroethene	113	106	60-137	5	0-25	
Vinyl Chloride	124	113	70-130	9	0-25	
Methyl-tert-Butyl Ether	90	88	80-120	2	0-25	
Tert-Butyl alcohol (TBA)	82	78	60-140	4	0-25	
Diisopropyl ether (DIPE)	94	93	60-140	2	0-25	
Ethyl t-butyl ether (ETBE)	91	90	60-140	2	0-25	
Tert-Amyl methyl ether	98	96	60-140	2	0-25	





# **Quality Control - LCS/LCS Duplicate**

TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618 Date Received: Work Order No: Preparation:

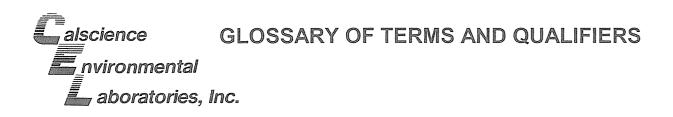
Method:

03/05/01 01-03-0168 N/A EPA 8260B

Project: Mobil - Jalk Fee

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bate Number	ch
099-10-006-1,787	Aqueous	GC/MS S	N/A	03/05/01	030501AW	
Parameter	LCS %RE	C LCSD %F	EC %REC	CL RPD	RPD CL	Qualifiers
Benzene	99	98	72-12	7 1	0-25	
Carbon Tetrachloride	123	118	70-13	0 4	0-25	
Chlorobenzene	99	96	72-13	1 2	0-25	
1,2-Dichlorobenzene	106	104	70-13	0 1	0-25	
1,1-Dichloroethene	106	100	69-12	7 6	0-25	
Toluene	108	106	75-12	4 1	0-25	
Trichloroethene	113	108	60-13	7 4	0-25	
Vinyl Chloride	109	104	79-11	8 4	0-25	
Methyl-tert-Butyl Ether	93	93	80-12	0 0	0-25	
Tert-Butyl alcohol (TBA)	84	79	60-14	0 6	0-25	
Diisopropyl ether (DIPE)	91	90	60-14	0 1	0-25	
Ethyl t-butyl ether (ETBE)	93	90	60-14	0 3	0-25	
Tert-Amyl methyl ether	100	98	60-14	0 2	0-25	





Work Order Number: 01-03-0168

<u>Qualifier</u>

**Definition** 

ND

Not detected at indicated reporting limit.



#### Jeff Hensel, 05:08 PM 03/05/01 -0800, RE: Mobil Jalk Fee; CEL# 01-03-0168

Reply-To: <jhensel@trcsolutions.com>

From: "Jeff Hensel" < jhensel@trcsolutions.com>

To: "Mike Crisostomo" <mcrisostomo@calscience.com>

Subject: RE: Mobil Jalk Fee; CEL# 01-03-0168

Date: Mon, 5 Mar 2001 17:08:22 -0800

X-Mailer: Microsoft Outlook 8.5, Build 4.71.2173.0

Importance: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3

We are no longer required to analyze for TPH-G at this site; however, we are required to run the oxygenates including MTBE along with the full scan VOC run.

Thanks, Jeff

----Original Message-----

From: Mike Crisostomo [mailto:mcrisostomo@calscience.com]

Sent: Monday, March 05, 2001 4:54 PM

To: Jeff Hensel

Subject: Mobil Jalk Fee; CEL# 01-03-0168

Jeff,

This afternoon, three samples (MW-5, MW-4, MW-3) associated with the Mobil Jalk Fee site were received by Calscience. The test for VOCs (Standard list) only were requested for this sample set. Do you need oxygenates reported from the analyses?

Also, is TPH-Gas required?

Mike Crisostomo
Project Manager
Calscience Environmental
Laboratories, Inc.

#### SAMPLE RECEIPT FORM

Date Received:

Date Opened:

Opened By:

03/05/01

03/05/01

JP

Work Order Number: 01-03-0168

Delivery Container Type: Cooler

Client Project ID: Mobil - JALK FEE

Section A: Pass/Fail Criteria Comments 1. Chain of custody document(s) received with samples. Yes 2. Sample container label(s) consistent with custody papers. Yes 3. Sample container label(s) complete (ID, date, time, taken by). Yes 4. Sample container(s) intact and in good condition. Yes 5. If applicable, proper preservation noted on sample label(s). Yes 6. Sufficient sample volume received for analyses requested. Yes 7. Correct containers used for analyses requested. Yes 8. If applicable, VOA vials free of headspace. Yes Section B: Additional Observations 1. Describe packing materials used in container. NA No 2. Was sample container('s) sealed with custody seals? 3. Were all samples sealed in separate plastic bags? No 3.0 °C 4. Measured temperature inside delivery container when opened. 5. If delivery container shipped by third-party carrier, No did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this form. NA 6. Do tedlar bags show condensation? Describe below if yes. 7. Are 25.1 condensate traps immersed in dry ice? NA NA 8. Are 25.1 sampling trains intact? 9. Are 25.3 condensate vials still attached to the sampling train? NA 10. Are 25.3 condensate vials on wet ice? NA Section C: Additional Comments

03/05/01 14:38:44 Generated in LIMS



TO TRC-4500

Bill 7 W35#

CHAIN OF CUSTODY RECORD

Date 3 SOU

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

-	EL: (714) 895-5494	TEL: (714) 895-5494 • FAX: (714) 894-7501											Page	a)			of	4	
LAB	LABORATORY CLIENT: T R C - A してらく ADDRESS:	3					CLIENT PROJECT NAME / NUMBER:	ROJECT N	NAME	/ NUMB	I ~	25-750-	25-1		a.	P.O. NO.:			
CITY	CITY TECHNOLOS	STATE STATE		27.0	ZIP		PROJECT 1944	CONTACT:	ACT:						1212	LAB USE	USE ONLY	D    F	
(金)	(学学)23-0101	(944)75 3-0111	E-MAIL E-MAIL	<u>@</u>			SAMPLER(S): (SIGNATURE) $\mathcal{R}_{i}(\mathcal{R}_{i})$	7(S): (SIC	INATUR	E N	10	N.T	Ì	The second secon	ŏ #	COOLER TEMP =	COOLER RECEIPT TEMP = 3	<b>L</b>	ပွ
₽.	TURNAROUND TIME	97 HB 78 HB 79 HB		7 3/4/2	7				<b>B</b>	1 kg	REQUES	E	ED A	ANALY	- 0	S	Mind) Otti manni (Cinwage 222		
	CIAL REQUIREMENTS (A		기 5	_	- A	<u>၊</u> ဥ ·			whi	91			<u> </u>		o a separation of the separati	(916			
S. E.	SPECIAL INSTRUCTIONS	to the email	my	Tim	unt	3				(8 oეu∃ (8							· · · · · · · · · · · · · · · · · · ·		
)	3/5/01 by	3/1/01 by J. Husel.				ACCORDING ACCORDING A ASSAULT TO CONSIDER THE	11	TBE (802	928/98 97 (809)				CP (504.1  2 METALS	(01	) 10 (AAT- F.3S) OML	SES (25.1			
LAB	SAMPLE ID	LOCATION/DESCRIPTION	SAME	SAMPLING	MATRIX	NO. OF	(8) H9T (0) H9T			2002 (8 0002 (20	PEST (80	PCBs (80		E8) 2AN9					
	MUS		3-5-01	8.18	3.	R			X										
	MW.4		7774	7					_				-						
	MW3		9	B	<b>→</b>	7			>										
			THE METALOW, L.	T T T T T T T T T T T T T T T T T T T															
				The state of the s						1.04									
			THE PARTY OF THE P										-						
	T T T T T T T T T T T T T T T T T T T																		
	Ç										-								
Reli	Relinquished (Signature)	re)			Received	yed by:	(Signature)	re)			- Commence of the Commence of			Total Commence of the Commence	Date:	4	Time:	. ie:	
T. Bett	Refinguished by: (Signature)	re)			Recei	ved by:	Received by: (Signature)	re)		-					Sate:	· 0/	Time.		
7	M.	The state of the s				,	,	•,				:			3/5	6	-	· · ·	0
Reli	Relinquished by: (Signature)	re)			Recei	ved for	Received for Laboratory by: (Signature)	гу þу: (\$	Signatu	re)					Date:		Time	 	

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

Q&Q Graphic (714) 898-9702

Receipt of Manifest is Pending

(April 12, 2001)